# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 03/01/2017 10:22 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/30/2017 11:23 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125076 | 0 | 1.62 | 124893 | 1.54 |
| Blue | F | SSC | 125000 | 123902 | -1 | 3.15 | 124099 | 2.85 |
| Blue | E | FITC | 21625 | 21318 | -2 | 2.40 | 950 | 9.82 |
| Blue | D | PE | 26832 | 26388 | -2 | 1.95 | 946 | 9.24 |
| Blue | B | PerCP-Cy5-5 | 48027 | 47807 | -1 | 3.31 | 1363 | 15.97 |
| Blue | A | PE-Cy7 | 40971 | 40617 | -1 | 4.96 | 628 | 33.74 |
| Red | C | APC | 49746 | 49554 | -1 | 2.91 | 2844 | 9.21 |
| Red | A | APC-Cy7 | 53615 | 53172 | -1 | 2.95 | 1099 | 10.91 |
| Violet | B | V450 | 14488 | 13933 | -4 | 5.89 | 665 | 9.75 |
| Violet | A | V500 | 55123 | 54353 | -2 | 5.74 | 2408 | 7.57 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19607 | 4.94 | 600 | 2 | N/A | N/A | Pass |
| Blue | F | SSC | 61816 | 1.45 | 531 | -3 | N/A | N/A | Pass |
| Blue | E | FITC | 106 | 38.44 | 531 | -5 | 0.0230 | 214 | Pass |
| Blue | D | PE | 207 | 27.21 | 526 | -5 | 0.1791 | 221 | Pass |
| Blue | B | PerCP-Cy5-5 | 216 | 42.23 | 622 | -7 | 0.0116 | 103 | Pass |
| Blue | A | PE-Cy7 | 70 | 109.82 | 671 | -10 | 0.0132 | 12 | Pass |
| Red | C | APC | 335 | 27.23 | 588 | -6 | 0.0222 | 118 | Pass |
| Red | A | APC-Cy7 | 120 | 40.56 | 571 | -9 | 0.0062 | 2097 | Pass |
| Violet | B | V450 | 81 | 41.27 | 468 | -3 | 0.0519 | 2046 | Pass |
| Violet | A | V500 | 175 | 21.99 | 494 | -2 | 0.0162 | 397 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.76 | -31.34 | 0.84 |
| Blue | 20.34 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.31 |
| Red | 17.40 | 13.27 - 19.91 | N/A | N/A | 31.60 | 31.95 | 1.14 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 9687

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments